

C1	0286	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE TYPE		THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.	
		1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)			COUNTY NUMBER	
ST/CO USE ONLY DATE Received MM DD YY		DATE WELL COMPLETED MM DD YY		Depth of Well 22 338 26 (TO NEAREST FOOT)		
8 13		15 14 06		28 29 30 31 32 33 34 35 36 37		

OWNER Sanborn James STREET OR RFD 4967 Ten Oaks Road TOWN Dryden  
SUBDIVISION \_\_\_\_\_ SECTION \_\_\_\_\_ LOT \_\_\_\_\_

WELL LOG Not required for driven wells			GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box) <b>Y</b> <b>N</b> TYPE OF GROUTING MATERIAL (Circle one) <b>CM</b> <b>BC</b> CEMENT <b>CM</b> BENTONITE CLAY <b>BC</b> NO. OF BAGS <u>20</u> NO. OF POUNDS <u>1000</u> GALLONS OF WATER <u>440</u> DEPTH OF GROUT SEAL (to nearest foot) from <u>0</u> TOP <u>52</u> ft. to <u>338</u> BOTTOM <u>58</u> ft. (enter 0 if from surface)			C 3 1 2 PUMPING TEST HOURS PUMPED (nearest hour) <u>8</u> PUMPING RATE (gal. per min.) <u>well</u> METHOD USED TO MEASURE PUMPING RATE <u>no test</u> WATER LEVEL (distance from land surface) BEFORE PUMPING <u>17</u> <u>20</u> ft. WHEN PUMPING <u>22</u> <u>25</u> ft. TYPE OF PUMP USED (for test) <b>A</b> air <b>P</b> piston <b>T</b> turbine <b>C</b> centrifugal <b>R</b> rotary <b>O</b> other (describe below) <b>J</b> jet <b>S</b> submersible		
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING			C 2 1 2 DEPTH (nearest ft.) E 1 <u>HO</u> <u>67</u> <u>338</u> A 8 9 11 15 17 21 C 2 23 24 26 30 32 36 S 38 39 41 45 47 51 R E E N SLOT SIZE 1 _____ 2 _____ 3 _____ DIAMETER OF SCREEN _____ (NEAREST INCH) from _____ to _____			PUMP INSTALLED DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES <b>NO</b> IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) <u>29</u> CAPACITY: GALLONS PER MINUTE (to nearest gallon) <u>31</u> <u>35</u> PUMP HORSE POWER <u>37</u> <u>41</u> PUMP COLUMN LENGTH (nearest ft.) <u>43</u> <u>47</u> CASING HEIGHT (circle appropriate box and enter casing height) <b>+</b> above <b>-</b> below <u>0</u> (nearest foot) LAND SURFACE		
DESCRIPTION (Use additional sheets if needed)			C 2 1 2 DEPTH (nearest ft.) E 1 <u>HO</u> <u>67</u> <u>338</u> A 8 9 11 15 17 21 C 2 23 24 26 30 32 36 S 38 39 41 45 47 51 R E E N SLOT SIZE 1 _____ 2 _____ 3 _____ DIAMETER OF SCREEN _____ (NEAREST INCH) from _____ to _____			PUMP INSTALLED DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES <b>NO</b> IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) <u>29</u> CAPACITY: GALLONS PER MINUTE (to nearest gallon) <u>31</u> <u>35</u> PUMP HORSE POWER <u>37</u> <u>41</u> PUMP COLUMN LENGTH (nearest ft.) <u>43</u> <u>47</u> CASING HEIGHT (circle appropriate box and enter casing height) <b>+</b> above <b>-</b> below <u>0</u> (nearest foot) LAND SURFACE		
FEET FROM TO 0 62 62 338 1 of 4 closed loop geothermal wells			C 2 1 2 DEPTH (nearest ft.) E 1 <u>HO</u> <u>67</u> <u>338</u> A 8 9 11 15 17 21 C 2 23 24 26 30 32 36 S 38 39 41 45 47 51 R E E N SLOT SIZE 1 _____ 2 _____ 3 _____ DIAMETER OF SCREEN _____ (NEAREST INCH) from _____ to _____			PUMP INSTALLED DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES <b>NO</b> IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) <u>29</u> CAPACITY: GALLONS PER MINUTE (to nearest gallon) <u>31</u> <u>35</u> PUMP HORSE POWER <u>37</u> <u>41</u> PUMP COLUMN LENGTH (nearest ft.) <u>43</u> <u>47</u> CASING HEIGHT (circle appropriate box and enter casing height) <b>+</b> above <b>-</b> below <u>0</u> (nearest foot) LAND SURFACE		
NUMBER OF UNSUCCESSFUL WELLS: <u>0</u>			C 2 1 2 DEPTH (nearest ft.) E 1 <u>HO</u> <u>67</u> <u>338</u> A 8 9 11 15 17 21 C 2 23 24 26 30 32 36 S 38 39 41 45 47 51 R E E N SLOT SIZE 1 _____ 2 _____ 3 _____ DIAMETER OF SCREEN _____ (NEAREST INCH) from _____ to _____			PUMP INSTALLED DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES <b>NO</b> IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) <u>29</u> CAPACITY: GALLONS PER MINUTE (to nearest gallon) <u>31</u> <u>35</u> PUMP HORSE POWER <u>37</u> <u>41</u> PUMP COLUMN LENGTH (nearest ft.) <u>43</u> <u>47</u> CASING HEIGHT (circle appropriate box and enter casing height) <b>+</b> above <b>-</b> below <u>0</u> (nearest foot) LAND SURFACE		
WELL HYDROFRACTURED <b>Y</b> <b>N</b>			C 2 1 2 DEPTH (nearest ft.) E 1 <u>HO</u> <u>67</u> <u>338</u> A 8 9 11 15 17 21 C 2 23 24 26 30 32 36 S 38 39 41 45 47 51 R E E N SLOT SIZE 1 _____ 2 _____ 3 _____ DIAMETER OF SCREEN _____ (NEAREST INCH) from _____ to _____			PUMP INSTALLED DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES <b>NO</b> IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) <u>29</u> CAPACITY: GALLONS PER MINUTE (to nearest gallon) <u>31</u> <u>35</u> PUMP HORSE POWER <u>37</u> <u>41</u> PUMP COLUMN LENGTH (nearest ft.) <u>43</u> <u>47</u> CASING HEIGHT (circle appropriate box and enter casing height) <b>+</b> above <b>-</b> below <u>0</u> (nearest foot) LAND SURFACE		
CIRCLE APPROPRIATE LETTER <b>A</b> A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED <b>E</b> ELECTRIC LOG OBTAINED <b>P</b> TEST WELL CONVERTED TO PRODUCTION WELL			C 2 1 2 DEPTH (nearest ft.) E 1 <u>HO</u> <u>67</u> <u>338</u> A 8 9 11 15 17 21 C 2 23 24 26 30 32 36 S 38 39 41 45 47 51 R E E N SLOT SIZE 1 _____ 2 _____ 3 _____ DIAMETER OF SCREEN _____ (NEAREST INCH) from _____ to _____			PUMP INSTALLED DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES <b>NO</b> IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) <u>29</u> CAPACITY: GALLONS PER MINUTE (to nearest gallon) <u>31</u> <u>35</u> PUMP HORSE POWER <u>37</u> <u>41</u> PUMP COLUMN LENGTH (nearest ft.) <u>43</u> <u>47</u> CASING HEIGHT (circle appropriate box and enter casing height) <b>+</b> above <b>-</b> below <u>0</u> (nearest foot) LAND SURFACE		
I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.			C 2 1 2 DEPTH (nearest ft.) E 1 <u>HO</u> <u>67</u> <u>338</u> A 8 9 11 15 17 21 C 2 23 24 26 30 32 36 S 38 39 41 45 47 51 R E E N SLOT SIZE 1 _____ 2 _____ 3 _____ DIAMETER OF SCREEN _____ (NEAREST INCH) from _____ to _____			PUMP INSTALLED DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES <b>NO</b> IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) <u>29</u> CAPACITY: GALLONS PER MINUTE (to nearest gallon) <u>31</u> <u>35</u> PUMP HORSE POWER <u>37</u> <u>41</u> PUMP COLUMN LENGTH (nearest ft.) <u>43</u> <u>47</u> CASING HEIGHT (circle appropriate box and enter casing height) <b>+</b> above <b>-</b> below <u>0</u> (nearest foot) LAND SURFACE		
DRILLERS LIC. NO. <u>MUD 421</u>			C 2 1 2 DEPTH (nearest ft.) E 1 <u>HO</u> <u>67</u> <u>338</u> A 8 9 11 15 17 21 C 2 23 24 26 30 32 36 S 38 39 41 45 47 51 R E E N SLOT SIZE 1 _____ 2 _____ 3 _____ DIAMETER OF SCREEN _____ (NEAREST INCH) from _____ to _____			PUMP INSTALLED DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES <b>NO</b> IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) <u>29</u> CAPACITY: GALLONS PER MINUTE (to nearest gallon) <u>31</u> <u>35</u> PUMP HORSE POWER <u>37</u> <u>41</u> PUMP COLUMN LENGTH (nearest ft.) <u>43</u> <u>47</u> CASING HEIGHT (circle appropriate box and enter casing height) <b>+</b> above <b>-</b> below <u>0</u> (nearest foot) LAND SURFACE		
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)			C 2 1 2 DEPTH (nearest ft.) E 1 <u>HO</u> <u>67</u> <u>338</u> A 8 9 11 15 17 21 C 2 23 24 26 30 32 36 S 38 39 41 45 47 51 R E E N SLOT SIZE 1 _____ 2 _____ 3 _____ DIAMETER OF SCREEN _____ (NEAREST INCH) from _____ to _____			PUMP INSTALLED DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES <b>NO</b> IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) <u>29</u> CAPACITY: GALLONS PER MINUTE (to nearest gallon) <u>31</u> <u>35</u> PUMP HORSE POWER <u>37</u> <u>41</u> PUMP COLUMN LENGTH (nearest ft.) <u>43</u> <u>47</u> CASING HEIGHT (circle appropriate box and enter casing height) <b>+</b> above <b>-</b> below <u>0</u> (nearest foot) LAND SURFACE		
LIC. NO. <u>D 561</u>			C 2 1 2 DEPTH (nearest ft.) E 1 <u>HO</u> <u>67</u> <u>338</u> A 8 9 11 15 17 21 C 2 23 24 26 30 32 36 S 38 39 41 45 47 51 R E E N SLOT SIZE 1 _____ 2 _____ 3 _____ DIAMETER OF SCREEN _____ (NEAREST INCH) from _____ to _____			PUMP INSTALLED DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES <b>NO</b> IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) <u>29</u> CAPACITY: GALLONS PER MINUTE (to nearest gallon) <u>31</u> <u>35</u> PUMP HORSE POWER <u>37</u> <u>41</u> PUMP COLUMN LENGTH (nearest ft.) <u>43</u> <u>47</u> CASING HEIGHT (circle appropriate box and enter casing height) <b>+</b> above <b>-</b> below <u>0</u> (nearest foot) LAND SURFACE		
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)			C 2 1 2 DEPTH (nearest ft.) E 1 <u>HO</u> <u>67</u> <u>338</u> A 8 9 11 15 17 21 C 2 23 24 26 30 32 36 S 38 39 41 45 47 51 R E E N SLOT SIZE 1 _____ 2 _____ 3 _____ DIAMETER OF SCREEN _____ (NEAREST INCH) from _____ to _____			PUMP INSTALLED DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES <b>NO</b> IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) <u>29</u> CAPACITY: GALLONS PER MINUTE (to nearest gallon) <u>31</u> <u>35</u> PUMP HORSE POWER <u>37</u> <u>41</u> PUMP COLUMN LENGTH (nearest ft.) <u>43</u> <u>47</u> CASING HEIGHT (circle appropriate box and enter casing height) <b>+</b> above <b>-</b> below <u>0</u> (nearest foot) LAND SURFACE		
TELESCOPE CASING			C 2 1 2 DEPTH (nearest ft.) E 1 <u>HO</u> <u>67</u> <u>338</u> A 8 9 11 15 17 21 C 2 23 24 26 30 32 36 S 38 39 41 45 47 51 R E E N SLOT SIZE 1 _____ 2 _____ 3 _____ DIAMETER OF SCREEN _____ (NEAREST INCH) from _____ to _____			PUMP INSTALLED DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES <b>NO</b> IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) <u>29</u> CAPACITY: GALLONS PER MINUTE (to nearest gallon) <u>31</u> <u>35</u> PUMP HORSE POWER <u>37</u> <u>41</u> PUMP COLUMN LENGTH (nearest ft.) <u>43</u> <u>47</u> CASING HEIGHT (circle appropriate box and enter casing height) <b>+</b> above <b>-</b> below <u>0</u> (nearest foot) LAND SURFACE		
LOG INDICATOR			C 2 1 2 DEPTH (nearest ft.) E 1 <u>HO</u> <u>67</u> <u>338</u> A 8 9 11 15 17 21 C 2 23 24 26 30 32 36 S 38 39 41 45 47 51 R E E N SLOT SIZE 1 _____ 2 _____ 3 _____ DIAMETER OF SCREEN _____ (NEAREST INCH) from _____ to _____			PUMP INSTALLED DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES <b>NO</b> IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) <u>29</u> CAPACITY: GALLONS PER MINUTE (to nearest gallon) <u>31</u> <u>35</u> PUMP HORSE POWER <u>37</u> <u>41</u> PUMP COLUMN LENGTH (nearest ft.) <u>43</u> <u>47</u> CASING HEIGHT (circle appropriate box and enter casing height) <b>+</b> above <b>-</b> below <u>0</u> (nearest foot) LAND SURFACE		
OTHER DATA			C 2 1 2 DEPTH (nearest ft.) E 1 <u>HO</u> <u>67</u> <u>338</u> A 8 9 11 15 17 21 C 2 23 24 26 30 32 36 S 38 39 41 45 47 51 R E E N SLOT SIZE 1 _____ 2 _____ 3 _____ DIAMETER OF SCREEN _____ (NEAREST INCH) from _____ to _____			PUMP INSTALLED DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES <b>NO</b> IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) <u>29</u> CAPACITY: GALLONS PER MINUTE (to nearest gallon) <u>31</u> <u>35</u> PUMP HORSE POWER <u>37</u> <u>41</u> PUMP COLUMN LENGTH (nearest ft.) <u>43</u> <u>47</u> CASING HEIGHT (circle appropriate box and enter casing height) <b>+</b> above <b>-</b> below <u>0</u> (nearest foot) LAND SURFACE		



C1 0287

SEQUENCE NO.  
(MDE USE ONLY)STATE OF MARYLAND  
WELL COMPLETION REPORT  
FILL IN THIS FORM COMPLETELY  
PLEASE TYPETHIS REPORT MUST BE SUBMITTED WITHIN  
45 DAYS AFTER WELL IS COMPLETED.COUNTY  
NUMBER1 2 3 6  
(THIS NUMBER IS TO BE PUNCHED  
IN COLS. 3-6 ON ALL CARDS)

ST/CO USE ONLY

DATE Received  
MM DO YY  
8 13

DATE WELL COMPLETED

MM DO YY  
8 16 06

Depth of Well

22 338 26  
(TO NEAREST FOOT)PERMIT NO.  
FROM "PERMIT TO DRILL WELL"HD 95-0403  
28 29 30 31 32 33 34 35 36 37OWNER Sanborn James  
STREET OR RFD 4967 Ten Oaks Road TOWN Dayton  
SUBDIVISION \_\_\_\_\_ SECTION \_\_\_\_\_ LOT \_\_\_\_\_

## WELL LOG

Not required for driven wells

## GROUTING RECORD

WELL HAS BEEN GROUTED  
(Circle Appropriate Box)yes no  
Y N  
44 44

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT CM BENTONITE CLAY BC

NO. OF BAGS 22 NO. OF POUNDS 1100

GALLONS OF WATER 484

DEPTH OF GROUT SEAL (to nearest foot)

from 0 ft. to 338 ft.  
(enter 0 if from surface)

## CASING RECORD

casing types insert appropriate code below  
ST STEEL CO CONCRETE  
PL PLASTIC OT OTHERMAIN CASING TYPE Nominal diameter top (main) casing (nearest inch) Total depth of main casing (nearest foot)  
PL 6 60

E A C H C A S I N G OTHER CASING (if used) diameter inch depth (feet) from to

screen type or open hole insert appropriate code below  
ST STEEL BR BRASS HO OPEN HOLE  
PL PLASTIC OT OTHER

C 2 DEPTH (nearest ft.)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

DIA. OF SCREEN (NEAREST INCH)  
from to

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 66

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)  
T (E.R.O.S.) W Q70 72 74 75 76  
TELESCOPE CASING LOG INDICATOR OTHER DATA

## PUMPING TEST

HOURS PUMPED (nearest hour) 8 9

PUMPING RATE (gal. per min.) 11 15

METHOD USED TO MEASURE PUMPING RATE not pumped

WATER LEVEL (distance from land surface)

BEFORE PUMPING 17 20 ft.

WHEN PUMPING 22 25 ft.

TYPE OF PUMP USED (for test)

A air P piston T turbine  
C centrifugal R rotary O other (describe below)  
J jet S submersible

## PUMP INSTALLED

DRILLER INSTALLED PUMP YES NO

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29

CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35

PUMP HORSE POWER 37 41

PUMP COLUMN LENGTH (nearest ft.) 43 47

CASING HEIGHT (circle appropriate box and enter casing height)

+ above LAND SURFACE (nearest foot)  
- below 0 50 51

## LOCATION OF WELL ON LOT

SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND FOR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)

house 4967 Ten Oaks Rd  
2094 Geothermal Wells  
Driveway  
Ten Oaks Rd

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED yes no  
Y N

## CIRCLE APPROPRIATE LETTER

A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED  
E ELECTRIC LOG OBTAINED  
P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. MWD 421

DRILLERS SIGNATURE  
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. MWD 561

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)



C 1		0288		SEQUENCE NO. (MDE USE ONLY)		STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE TYPE		THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.	
1 2 3 4 5 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)		ST/CO USE ONLY DATE Received MM DD YY 8 13		DATE WELL COMPLETED MM DD YY 8 22 06		Depth of Well 22 338 26 (TO NEAREST FOOT)		PERMIT NO. FROM "PERMIT TO DRILL WELL" H0 - 95 - 0403	
OWNER: <u>Sanborn</u> last name		STREET OR RFD: <u>4967 Ten Oaks Road</u> first name		TOWN: <u>Dayton</u>		SECTION: _____		LOT: _____	
WELL LOG Not required for driven wells		GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box) yes <input checked="" type="checkbox"/> Y no <input type="checkbox"/> N 44 44 TYPE OF GROUTING MATERIAL (Circle one) CEMENT <input checked="" type="checkbox"/> CM BENTONITE CLAY <input type="checkbox"/> BC NO. OF BAGS <u>45 46</u> NO. OF POUNDS <u>45 46</u> GALLONS OF WATER <u>418</u> DEPTH OF GROUT SEAL (to nearest foot) from <u>0</u> ft. to <u>338</u> ft. (enter 0 if from surface)		PUMPING TEST HOURS PUMPED (nearest hour) <u>geothermal</u> PUMPING RATE (gal. per min.) <u>well</u> METHOD USED TO MEASURE PUMPING RATE <u>not pumped</u> WATER LEVEL (distance from land surface) BEFORE PUMPING <u>17</u> ft. WHEN PUMPING <u>22</u> ft. TYPE OF PUMP USED (for test) <input checked="" type="checkbox"/> A air <input type="checkbox"/> P piston <input type="checkbox"/> T turbine <input type="checkbox"/> C centrifugal <input type="checkbox"/> R rotary <input type="checkbox"/> O other (describe below) <input type="checkbox"/> J jet <input type="checkbox"/> S submersible					
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING		C 3 1 2 PUMPING TEST		C 3 1 2 PUMPING TEST		C 3 1 2 PUMPING TEST		C 3 1 2 PUMPING TEST	
DESCRIPTION (Use additional sheets if needed)		FEET FROM TO		check if water bearing		C 3 1 2 PUMPING TEST		C 3 1 2 PUMPING TEST	
Brown silty over burden and weathered rock		0 53				C 3 1 2 PUMPING TEST		C 3 1 2 PUMPING TEST	
Grey Bedrock		53 338				C 3 1 2 PUMPING TEST		C 3 1 2 PUMPING TEST	
3 of 4 closed loop geothermal wells						C 3 1 2 PUMPING TEST		C 3 1 2 PUMPING TEST	
C 2 1 2 DEPTH (nearest ft.)		C 2 1 2 DEPTH (nearest ft.)		C 2 1 2 DEPTH (nearest ft.)		C 2 1 2 DEPTH (nearest ft.)		C 2 1 2 DEPTH (nearest ft.)	
WELL HYDROFRACTURED yes <input checked="" type="checkbox"/> Y no <input type="checkbox"/> N		WELL HYDROFRACTURED yes <input checked="" type="checkbox"/> Y no <input type="checkbox"/> N		WELL HYDROFRACTURED yes <input checked="" type="checkbox"/> Y no <input type="checkbox"/> N		WELL HYDROFRACTURED yes <input checked="" type="checkbox"/> Y no <input type="checkbox"/> N		WELL HYDROFRACTURED yes <input checked="" type="checkbox"/> Y no <input type="checkbox"/> N	
CIRCLE APPROPRIATE LETTER A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO PRODUCTION WELL		CIRCLE APPROPRIATE LETTER A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO PRODUCTION WELL		CIRCLE APPROPRIATE LETTER A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO PRODUCTION WELL		CIRCLE APPROPRIATE LETTER A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO PRODUCTION WELL		CIRCLE APPROPRIATE LETTER A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO PRODUCTION WELL	
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DRILLERS LIC. NO.: <u>MWD 421</u>		DRILLERS LIC. NO.: <u>MWD 421</u>		DRILLERS LIC. NO.: <u>MWD 421</u>		DRILLERS LIC. NO.: <u>MWD 421</u>		DRILLERS LIC. NO.: <u>MWD 421</u>	
DRILLER SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)		DRILLER SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)		DRILLER SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)		DRILLER SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)		DRILLER SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)	
LIC. NO.: <u>MWD 561</u>		LIC. NO.: <u>MWD 561</u>		LIC. NO.: <u>MWD 561</u>		LIC. NO.: <u>MWD 561</u>		LIC. NO.: <u>MWD 561</u>	
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)		SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)		SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)		SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)		SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)	
MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)		MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)		MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)		MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)		MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)	
T (E.R.O.S.)		T (E.R.O.S.)		T (E.R.O.S.)		T (E.R.O.S.)		T (E.R.O.S.)	
W Q		W Q		W Q		W Q		W Q	
70		70		70		70		70	
72		72		72		72		72	
TELESCOPE CASING		TELESCOPE CASING		TELESCOPE CASING		TELESCOPE CASING		TELESCOPE CASING	
LOG INDICATOR		LOG INDICATOR		LOG INDICATOR		LOG INDICATOR		LOG INDICATOR	
OTHER DATA		OTHER DATA		OTHER DATA		OTHER DATA		OTHER DATA	
74 75 76		74 75 76		74 75 76		74 75 76		74 75 76	
LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)		LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)		LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)		LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)		LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)	
Drive Way		Drive Way		Drive Way		Drive Way		Drive Way	
House		House		House		House		House	
4967 Ten Oaks Rd		4967 Ten Oaks Rd		4967 Ten Oaks Rd		4967 Ten Oaks Rd		4967 Ten Oaks Rd	
3054		3054		3054		3054		3054	
geothermal wells		geothermal wells		geothermal wells		geothermal wells		geothermal wells	
Ten Oaks Road		Ten Oaks Road		Ten Oaks Road		Ten Oaks Road		Ten Oaks Road	



<b>C1</b>   <b>0289</b> <small>1 2 3 6</small> (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)		SEQUENCE NO. (MDE USE ONLY)		<b>STATE OF MARYLAND</b> <b>WELL COMPLETION REPORT</b> FILL IN THIS FORM COMPLETELY PLEASE TYPE		THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.	
ST/CO USE ONLY DATE Received MM DD YY 8 13		DATE WELL COMPLETED MM DD YY 8 24 06		Depth of Well 22 338 26 (TO NEAREST FOOT)		PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-95-0403	
OWNER <u>Sanborn</u> STREET OR RFD <u>4967 Ten Oaks Road</u> SUBDIVISION _____ TOWN <u>Dayton</u> LOT _____		SECTION _____		COUNTY NUMBER _____			
<b>WELL LOG</b> Not required for driven wells		<b>GROUTING RECORD</b> WELL HAS BEEN GROUTED (Circle Appropriate Box) yes <input checked="" type="checkbox"/> Y no <input type="checkbox"/> N 44 44 TYPE OF GROUTING MATERIAL (Circle one) CEMENT <input checked="" type="checkbox"/> CM BENTONITE CLAY <input type="checkbox"/> BC NO. OF BAGS <u>45 46</u> NO. OF POUNDS <u>45 46</u> GALLONS OF WATER <u>418</u> DEPTH OF GROUT SEAL (to nearest foot) from <u>0</u> ft. to <u>338</u> ft. (enter 0 if from surface)		<b>C 3</b> <b>PUMPING TEST</b> HOURS PUMPED (nearest hour) <u>geothermal</u> PUMPING RATE (gal. per min.) <u>well</u> METHOD USED TO MEASURE PUMPING RATE <u>not pump</u> WATER LEVEL (distance from land surface) BEFORE PUMPING <u>17</u> ft. <u>20</u> WHEN PUMPING <u>22</u> ft. <u>25</u> TYPE OF PUMP USED (for test) <input checked="" type="checkbox"/> A air <input type="checkbox"/> P piston <input type="checkbox"/> T turbine <input checked="" type="checkbox"/> C centrifugal <input type="checkbox"/> R rotary <input type="checkbox"/> O other (describe below) <input type="checkbox"/> J jet <input type="checkbox"/> S submersible			
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING DESCRIPTION (Use additional sheets if needed) FEET FROM TO check if water bearing		<b>CASING RECORD</b> casing types insert appropriate code below <input checked="" type="checkbox"/> ST STEEL <input type="checkbox"/> CO CONCRETE <input type="checkbox"/> PL PLASTIC <input type="checkbox"/> OT OTHER MAIN CASING TYPE <u>PL</u> Nominal diameter top (main) casing (nearest inch) <u>6</u> Total depth of main casing (nearest foot) <u>60</u> 60 61 63 64 66 70		<b>PUMP INSTALLED</b> DRILLER INSTALLED PUMP (CIRCLE) (YES OR NO) YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. <u>29</u> CAPACITY: GALLONS PER MINUTE (to nearest gallon) <u>31</u> <u>35</u> PUMP HORSE POWER <u>37</u> <u>41</u> PUMP COLUMN LENGTH (nearest ft.) <u>43</u> <u>47</u> CASING HEIGHT (circle appropriate box and enter casing height) <input checked="" type="checkbox"/> + above <input type="checkbox"/> - below LAND SURFACE <u>0</u> (nearest foot)			
Brown silty overburden and weathered rock Grey bedrock 4 of 4 closed loop geothermal wells		OTHER CASING (if used) diameter inch depth (feet) from to E A C H C A S I N G _____ screen type or open hole insert appropriate code below <input checked="" type="checkbox"/> ST STEEL <input type="checkbox"/> BR BRASS <input type="checkbox"/> HO OPEN HOLE <input type="checkbox"/> PL PLASTIC <input type="checkbox"/> OT OTHER		<b>C 2</b> DEPTH (nearest ft.) <u>HO 60 338</u> E 1 8 9 11 15 17 21 A 2 23 24 26 30 32 36 C 3 38 39 41 45 47 51 R 38 39 41 45 47 51 E 38 39 41 45 47 51 E 38 39 41 45 47 51 N 38 39 41 45 47 51 SLOT SIZE 1 _____ 2 _____ 3 _____ DIAMETER OF SCREEN (NEAREST INCH) 56 60 from to		LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL) house 4967 Ten Oaks Rd 4 of 4 geothermal wells Driveway Ten Oaks Rd	
NUMBER OF UNSUCCESSFUL WELLS: <u>0</u> WELL HYDROFRACTURED yes <input checked="" type="checkbox"/> Y no <input type="checkbox"/> N CIRCLE APPROPRIATE LETTER A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO PRODUCTION WELL I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.		GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 <u>68</u> MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q 70 72 74 75 76 TELESCOPE CASING LOG INDICATOR OTHER DATA		DRILLERS LIC. NO. <u>MWD 421</u> DRILLERS SIGNATURE <u>[Signature]</u> (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. <u>MWD 561</u> SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)			



B 1	<b>2298</b>	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND <b>APPLICATION FOR PERMIT TO DRILL WELL</b> 524497 please type	STATE PERMIT NUMBER <b>HO-95-0403</b> fill in this form completely
Date Received (APA) 6/5/06 8 MM DD YY 13		OWNER INFORMATION		
15 Last Name <b>Sanborn</b>		Owner First Name <b>James</b>		
36 Street or RFD <b>4967 Ten Oaks Road</b>		55		
57 Town <b>Dayton</b>		70 State <b>MD</b>		72 Zip <b>21036</b>
DRILLER INFORMATION				
Driller's Name <b>Stephen Saul</b>		License No. <b>MWD 421</b>		
Firm Name <b>B.I. Myers Bros</b>				
Address <b>1512 Pegasus Ct Suite V Frederick MD 21704</b>				
Signature <i>[Signature]</i>		Date <b>6-2-06</b>		
B 2 WELL INFORMATION				
APPROX. PUMPING RATE (GAL. PER MIN.)		8 12		
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY)		14 20		
USE FOR WATER (CIRCLE APPROPRIATE BOX)				
<input type="checkbox"/> DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION <input type="checkbox"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) <input type="checkbox"/> INDUSTRIAL, COMMERCIAL, DEWATERING <input type="checkbox"/> PUBLIC WATER SUPPLY WELL <input type="checkbox"/> TEST, OBSERVATION, MONITORING <input checked="" type="checkbox"/> GEO-THERMAL				
NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL				
COUNTY NAME <b>HOWARD</b> (13) <b>SP523113</b> STATE SIGNATURE <b>A4C861</b> DATE ISSUED <b>6/22/06</b> CO SIGNATURE <i>[Signature]</i> EXP. DATE <b>6/23/07</b> NORTH GRID <b>511 000</b> EAST GRID <b>805 000</b>				
APPROXIMATE DEPTH OF WELL <b>340</b> FEET		NEAREST INCH		
APPROXIMATE DIAMETER OF WELL <b>6</b>		NEAREST INCH		
METHOD OF DRILLING (circle one)				
BORED (or Augered) <input type="checkbox"/> JETTED <input type="checkbox"/> Jetted & DRIVEN <input type="checkbox"/> AIR-ROTARY <input type="checkbox"/> AIR-PERCussion <input checked="" type="checkbox"/> ROTARY (Hydraulic Rotary) <input type="checkbox"/> CABLE <input type="checkbox"/> REVERSE-ROTARY <input type="checkbox"/> Drive-POINT <input type="checkbox"/> other _____				
REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)				
<input checked="" type="checkbox"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS <input type="checkbox"/> THIS WELL WILL DEEPEM AN EXISTING WELL				
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 _____ 52				
Not to be filled in by driller (MDE OR COUNTY USE ONLY)				
APPROX. PERMIT NUMBER _____ G _____				
PERMIT No. <b>HO-95-0403</b>				
SPECIAL CONDITIONS				
NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED - <b>Submitted of a separate well completion report for each geothermal well is required</b>				

