

C 1 09133
 SEQUENCE NO. (MDE USE ONLY)
 1 2 3 6
 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

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.
 COUNTY NUMBER

ST/CO USE ONLY
 DATE Received MM DD YY 09 31 14
 DATE WELL COMPLETED MM DD YY 12 24 13
 Depth of Well 22 320 26 3/6/2014
 (TO NEAREST FOOT)
 PERMIT NO. FROM "PERMIT TO DRILL WELL" H0 - 95 - 2616
 28 29 30 31 32 33 34 35 36 37

OWNER Cohen last name Martin Charles first name
 WELL SITE ADDRESS 1124 Oakland Mills Rd TOWN Columbia
 SUBDIVISION William P. McCuan Property SECTION LOT 3

WELL LOG
 Not required for driven wells
 STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing
	FROM	TO	
Silt, Brown, Tr. Mica, Tr. F Sand, Dry STFF	0	20	
Rock, Hard, Gray	20	320	✓

Installed 1.25" Closed Loop Geothermal

GROUTING RECORD yes no
 WELL HAS BEEN GROUTED (Circle Appropriate Box) Y N
 TYPE OF GROUTING MATERIAL (Circle one)
 CEMENT CM BENTONITE CLAY BC
 NO. OF BAGS 16 NO. OF POUNDS 800
 GALLONS OF WATER 400
 DEPTH OF GROUT SEAL (to nearest foot)
 from 3 ft. to 320 ft.
 (enter 0 if from surface)

CASING RECORD
 casing types insert appropriate code below
 ST STEEL CO CONCRETE
 PL PLASTIC OT OTHER
 MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch)! Total depth of main casing (nearest foot)
 60 61 63 64 66 70

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

SCREEN RECORD
 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
 E A C H S C R E E N
 8 9 11 15 17 21
 23 24 26 30 32 36
 38 39 41 45 47 51
 SLOT SIZE 1 2 3
 DIAMETER OF SCREEN (NEAREST INCH)
 56 60
 from to

C 3
PUMPING TEST
 HOURS PUMPED (nearest hour) N/A
 PUMPING RATE (gal. per min.) N/A
 METHOD USED TO MEASURE PUMPING RATE N/A
 WATER LEVEL (distance from land surface)
 BEFORE PUMPING 10 ft.
 WHEN PUMPING N/A 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
 - below } 3 (nearest foot)
 49 50 51

NUMBER OF UNSUCCESSFUL WELLS: 0
 WELL HYDROFRACTURED 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 28.04.04 "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. 1 MWD 572
 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)
 LIC. NO. 1 JW D 391
 SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68
 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

LATITUDE 39.203041
 LONGITUDE 76.833157
 (DEFAULT COORD. WGS 84)
 NOTES:

C1 09134

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER

ST/CO USE ONLY DATE Received

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

OWNER, WELL SITE ADDRESS, TOWN, SUBDIVISION, SECTION, LOT

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes handwritten entries like 'Silt, Brown', 'Dry, Tr. V.f.', 'Sand, Tr. Mica', 'Rock. Hard. Grey', 'Installed 1.25" Closet Coat Weather seal'.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y/N), TYPE OF GROUTING MATERIAL (CEMENT, BENTONITE CLAY), NO. OF BAGS, NO. OF POUNDS, GALLONS OF WATER, DEPTH OF GROUT SEAL

CASING RECORD

MAIN CASING TYPE, Nominal diameter top (main) casing, Total depth of main casing, OTHER CASING (if used)

SCREEN RECORD

screen type or open hole, insert appropriate code below (ST, BR, HO, PL, OT)

DEPTH (nearest ft.)

Table with columns: 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. Includes 'SLOT SIZE' and 'DIAMETER OF SCREEN'.

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)

TELESCOPE CASING, LOG INDICATOR, OTHER DATA

C 3

PUMPING TEST

HOURS PUMPED, PUMPING RATE, METHOD USED TO MEASURE PUMPING RATE, WATER LEVEL, BEFORE PUMPING, WHEN PUMPING, TYPE OF PUMP USED

PUMP INSTALLED

DRILLER INSTALLED PUMP (YES/NO), IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS, TYPE OF PUMP INSTALLED, CAPACITY, PUMP HORSE POWER, PUMP COLUMN LENGTH, CASING HEIGHT

LATITUDE 39.202993, LONGITUDE 76.833103 (DEFAULT COORD. WGS 84)

NOTES:

B 1 20442
1 2 3 6

SEQUENCE NO.
(MDE USE ONLY)

STATE OF MARYLAND
APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

HO -95-2616
70 fill in this form completely 79

545197 please type

Date Received (APA)

11-20-13
8 MM DD YY 13

OWNER INFORMATION

15 Last Name: Cohen
Owner: Martin Charles
34 First Name
36 Street or RFD: 6121 Oakland Mills Road
55
57 Town: Columbia 70 State: Md. 72 Zip: 21045 76

B 3 LOCATION OF WELL

8 COUNTY: Howard 21
23 SUBDIVISION: Lot 3, 552 AR 6121 Oakland Mills Rd.
William P. McCuan Property 42
SECTION: 44 46 LOT: 3 48 50
52 NEAREST TOWN: Columbia 71

DRILLER INFORMATION

Driller's Name: Sam Connelly MW D 572
76 License No. 81
Firm Name: Connelly and Associates
Address: 260 Interstate Ct. Frederick, Md. 21704
Signature: Samuel A. Connelly Date: 11/20/13

B 4 SOURCES OF DRILLING WATER

1. public
2.
3.
11 STREET ADDRESS: 6121 Oakland Mills Rd. 30
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
34 352 37
DISTANCE FROM ROAD ENTER () OR MI 38 39 FT
TAX MAP: 0036 BLK: 10 PARCEL: 0425

B 2 WELL INFORMATION

1 APPROX. PUMPING RATE (GAL. PER MIN.) N/A 8 12
2 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) N/A 14 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
- FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
- INDUSTRIAL, COMMERCIAL, DEWATERING
- PUBLIC WATER SUPPLY WELL
- TEST, OBSERVATION, MONITORING
- OPEN LOOP GEOTHERMAL
- CLOSED LOOP GEOTHERMAL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard (13) Public
COUNTY NAME COUNTY NO.
STATE SIGNATURE INSERT S → 41
DATE ISSUED: 12/11/2013
CO SIGNATURE: Brian Baker 12/11/2014
43 MM DD YY 48 EXP. DATE

APPROXIMATE DEPTH OF WELL 320 24 28 FEET

APPROXIMATE DIAMETER OF WELL 6 NEAREST INCH

METHOD OF DRILLING (circle one)

- BORED (or Augered) JETTED Jetted & DRIVEN
- 30 AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary)
- 37 CABLE REVerse-ROTary DRive-POINT
- other

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

- THIS WELL WILL NOT REPLACE AN EXISTING WELL
- THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
- 39 THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
- THIS WELL WILL DEEPEMED AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 52

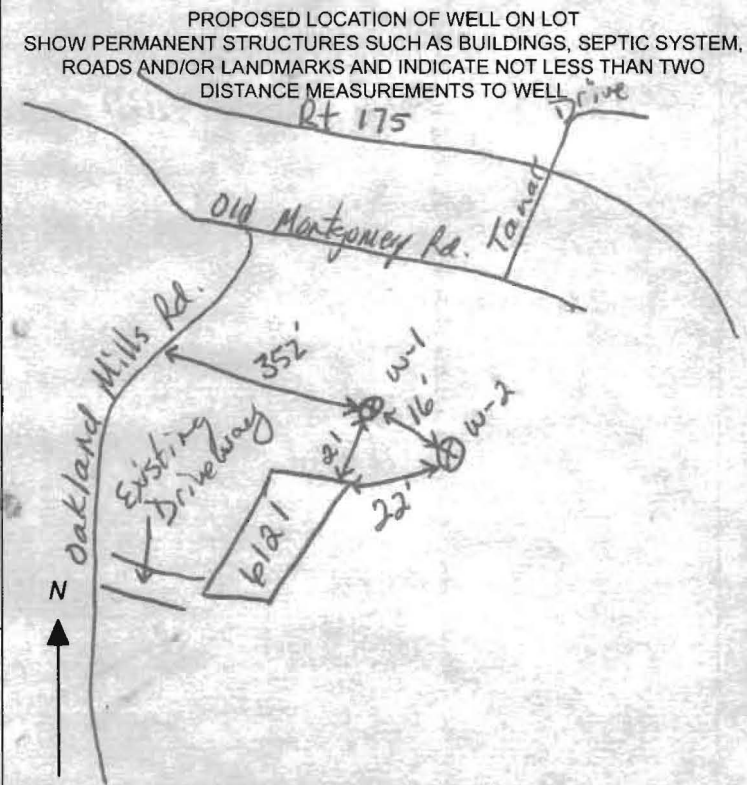
Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROX. PERMIT NUMBER G

PERMIT No. HO -95-2616
70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS

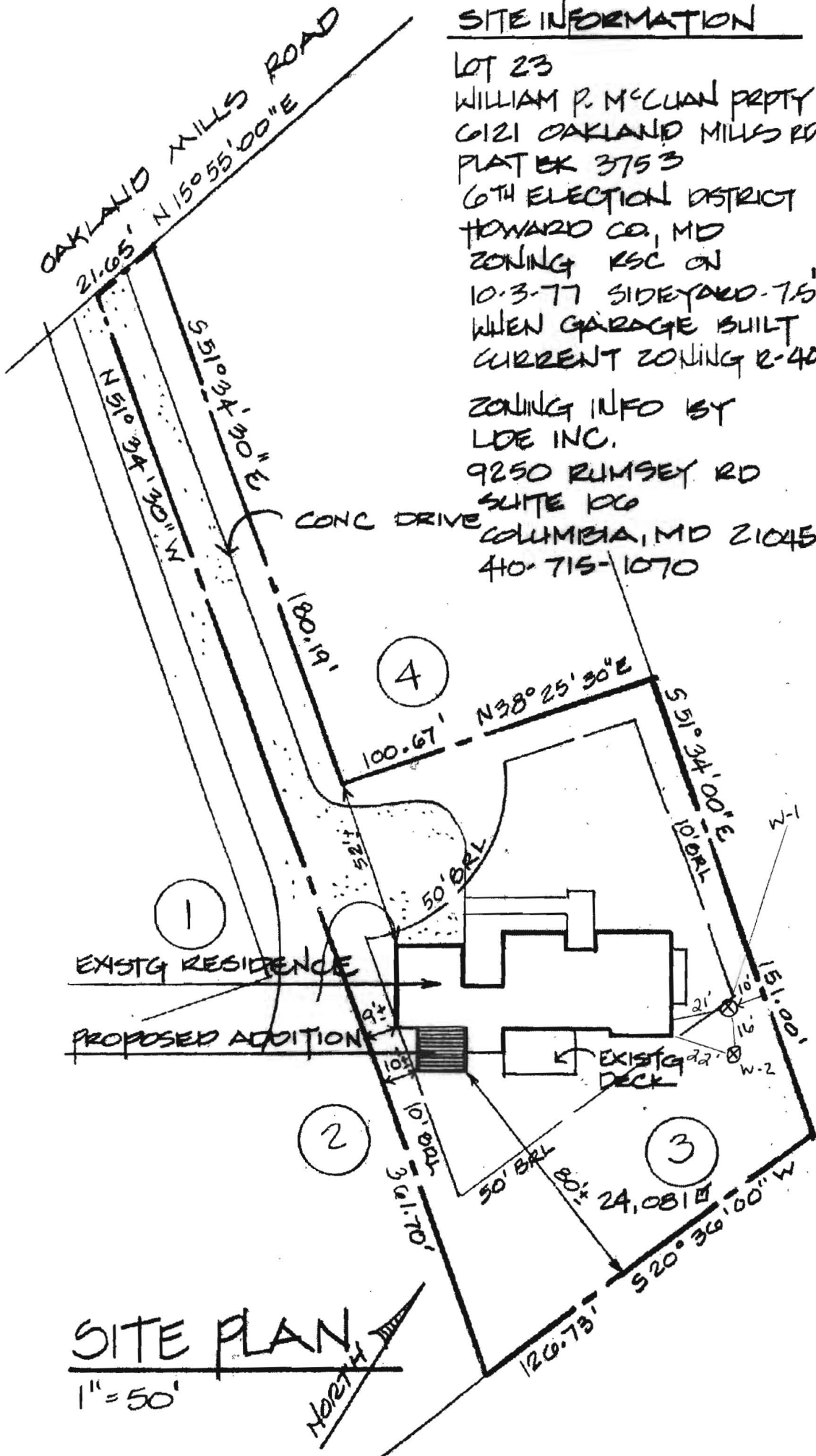
NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED
Great Borehole From Bottom Upwards With Tremie Pipe



SITE INFORMATION

LOT 23
WILLIAM P. McCLUAN PRPTY
6121 OAKLAND MILLS RD
PLAT BK 3753
6TH ELECTION DISTRICT
HOWARD CO, MD
ZONING RSC ON
10-3-77 SIDEYARD-7.5
WHEN GARAGE BUILT
CURRENT ZONING R-40

ZONING INFO BY
LDE INC.
9250 RUMSEY RD
SUITE 100
COLUMBIA, MD 21045
410-715-1070



SITE PLAN

1" = 50'

North