

C1 1962 (MDE USE ONLY)

STATE OF MARYLAND
WELL COMPLETION REPORT
FILL IN THIS FORM COMPLETELY
PLEASE TYPE

WELL IS COMPLETED.
COUNTY NUMBER A589935

ST/CO USE ONLY
DATE Received
MM DD YY
8 13

DATE WELL COMPLETED
MM DD YY
9-22-99
15 20

Depth of Well
22 150 26
(TO NEAREST FOOT)

PERMIT NO.
FROM "PERMIT TO DRILL WELL"
HO-94-2421
28 29 30 31 32 33 34 35 36 37

OWNER BRS Developers last name first name
STREET OR RFD Clean Drive Ct TOWN Glenwood
SUBDIVISION Catton Ridge SECTION _____ LOT 18

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	
Brown soil	0	40	
HARD GRAY GRANITE	40	150	
		65 ✓	
		90 ✓	
		140 ✓	

GROUTING RECORD
WELL HAS BEEN GROUTED (Circle Appropriate Box) Y N
TYPE OF GROUTING MATERIAL (Circle one)
CEMENT CM BENTONITE CLAY BC
NO. OF BAGS 11 NO. OF POUNDS 1034
GALLONS OF WATER 666 gals
DEPTH OF GROUT SEAL (to nearest foot)
from 0 ft. to 44 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 ST Nominal diameter top (main) casing (nearest inch) 06 Total depth of main casing (nearest foot) 44
60 61 63 64 66 70

OTHER CASING (if used)
EACH CASING diameter depth (feet) inch from to

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 3 4 5 6 7 8 9 11 15 17 21
A 8 9 11 15 17 21
C 23 24 26 30 32 36
H 23 24 26 30 32 36
S 38 39 41 45 47 51
R 38 39 41 45 47 51
E
N
SLOT SIZE 1 _____ 2 _____ 3 _____
DIAMETER OF SCREEN (NEAREST INCH)
56 60
from to

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

C 3 PUMPING TEST
HOURS PUMPED (nearest hour) 3
8 9
PUMPING RATE (gal. per min.) 10
11 15
METHOD USED TO MEASURE PUMPING RATE Watch & bucket
WATER LEVEL (distance from land surface)
BEFORE PUMPING 34' ft.
17 20
WHEN PUMPING 98' ft.
22 25
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 (CIRCLE) (YES or NO) 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 49 LAND SURFACE
 - below 49 (nearest foot) 50 51

LOCATION OF WELL ON LOT
SHOW PERMANENT STRUCTURES AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)
70'
15'

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 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 355
DRILLERS SIGNATURE
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. MWD 549
Max S. Jones

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

ENVIRONMENTAL HEALTH & SAFETY
RECEIVED

Front Prop Line

B 1 .14104

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND
PERMIT TO DRILL WELL
please print or type

STATE PERMIT NUMBER
HO-94-2421
fill in this form completely

Date Received (APA)
083099

OWNER INFORMATION

8 MM DD YY 13
CATTAIL OVERLOOK LLC.
15 Last Name Owner First Name 34
8808 CENTRE PARK DR. SUITE 108
36 Street or RFD 55
Columbia MARYLAND 21045
57 Town 70 State 72 Zip 76

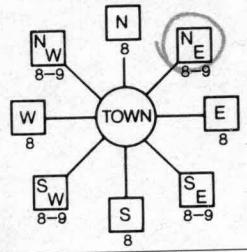
B 3 LOCATION OF WELL

HOWARD
8 COUNTY 21
CATTAIL RIDGE
23 SUBDIVISION 42
SECTION 44 46 LOT 18 48 50
ROXBURY
52 NEAREST TOWN 71
MILES FROM TOWN (enter 0 if in town) 2 MI
73 76 77 78

DRILLER INFORMATION

MICHAEL BARLOW MW D 355
76 License No. 81
Driller's Name
MICHAEL BARLOW WELL DRILLING Svc Inc
Firm Name
912 FAWN CT. Joppa, MD 21085
Address
[Signature] 8/18/99
Signature Date

B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



ROAD D
11 NEAR WHAT ROAD 30
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
NORTH [] WEST [] EAST [] SOUTH []
34 15 37 DISTANCE FROM ROAD
ENTER FT OR MI 38 39
TAX MAP: _____ BLK: _____ PARCEL _____

B 2 WELL INFORMATION

1 2 APPROX. PUMPING RATE (GAL. PER MIN.) 5
8 12
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500
14 20

NOT TO BE FILLED IN BY DRILLER
HEALTH DEPARTMENT APPROVAL

Howard Co A589935
COUNTY NAME COUNTY NO.
STATE SIGNATURE _____ INSERT S → 41
DATE ISSUED 090799 A M. Miller 090700
43 MM DD YY 48 CO SIGNATURE EXP. DATE
NORTH GRID 520 0 0 0 EAST GRID 780 0 0 0
50 55 57 63

USE FOR WATER (CIRCLE APPROPRIATE BOX)

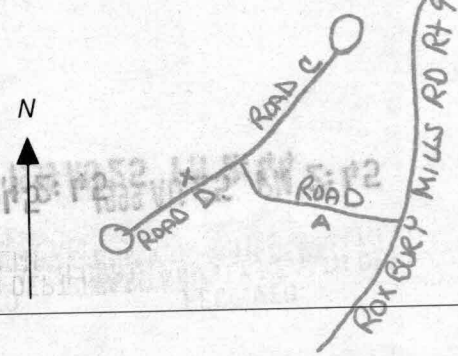
- DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
- FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
- INDUSTRIAL, COMMERCIAL, DEWATERING
- PUBLIC WATER SUPPLY WELL
- TEST, OBSERVATION, MONITORING
- GEO-THERMAL

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X
SOURCES OF DRILLING WATER
1.
2.
3.

9/21/99 Pump & Grout 12pm
NO INSP
9/22/99
44' casing x
11 bags cement
Missed grout
BB

WRITE THE BOX NUMBER FROM THE MAP HERE
E 780
N 520
000
000

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION



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
- 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 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)

APPROP. PERMIT NUMBER 54 _____ 63
PERMIT No. HO-94-2421
70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED -

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
WATER AND SEWERAGE PROGRAM
TEL: (410)313-2640 FAX: (410)313-2648

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: Willoughby Plumb Telephone #: 410-281-7051
Address: 6203 PATRICK DR.
SPRINGVILLE, MD 21157

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:
Name (Print): CHRIS WILLOUGHBY License # 6992

*A licensed individual must perform the actual installation. Apprentices must be under the direct supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification.

Name of Property Owner: SUNDACOM PROJECT Telephone #:
Subdivision: CHATEAU RIDGE Lot #: B Well Tag #: HO 94-2421
Site Address: 3101 CLEAR BILVER
GLENWOOD, MD 21728

Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit
Make: JANITZ Make: HOWARD Two piece watertight cap:
Model #: _____ Model #: _____ Screened, vented well cap:
Pump Capacity _____ GPM Depth: 48 (36" min) Cap secured to casing:
Well Yield: 10 GPM NSF approved: _____ Conduit min 18" B.G.:
Depth of well encountered at time of pump installation: 150 (feet) Conduit secured to well cap:
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4
Torque arrestors or Cable guards are required - Must circle one
Safety rope, if used, attached to inside of well casing with eye bolt

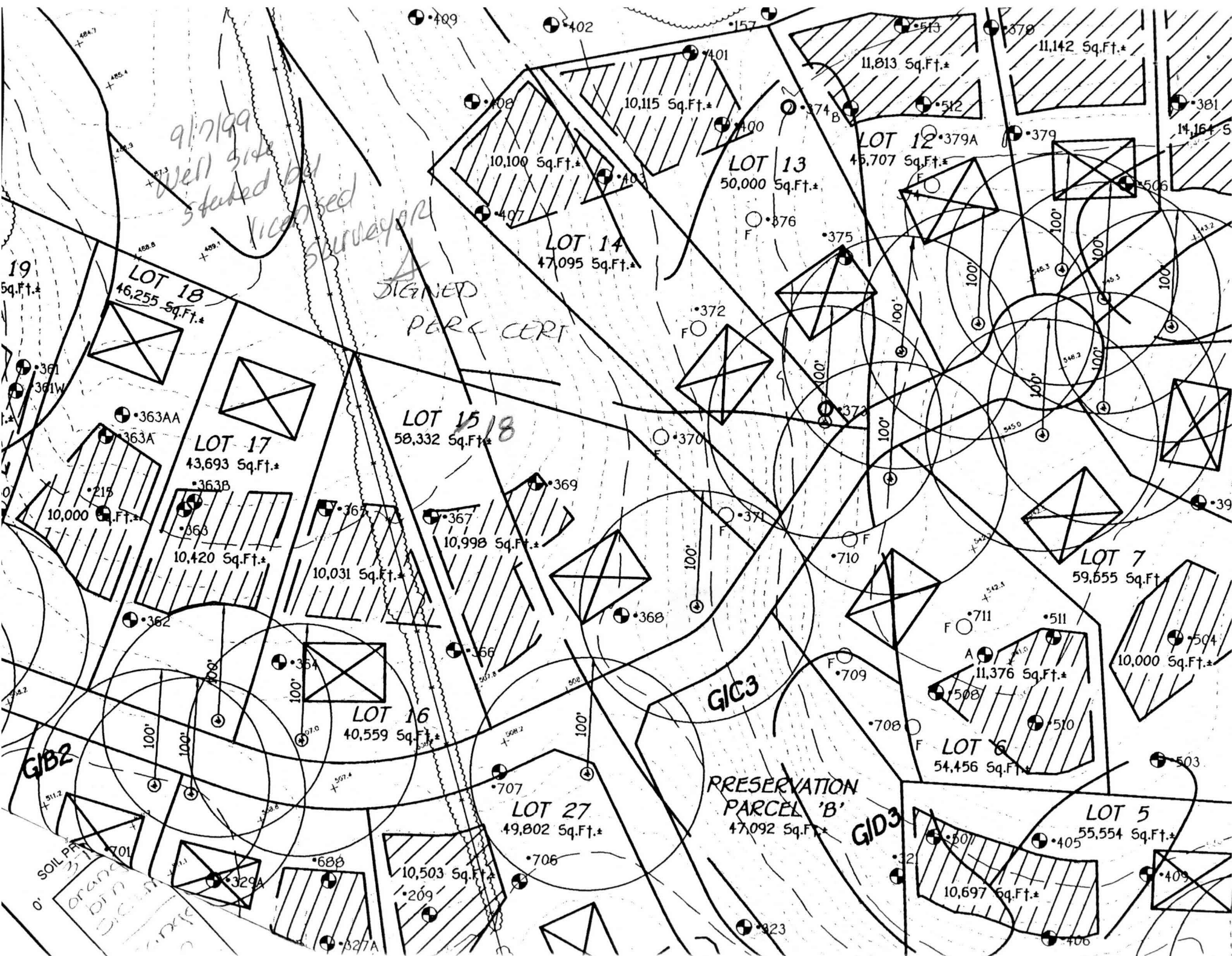
Piping to house House Connection
Type: CRESLINE PVC sleeved to undisturbed soil at wall penetration:
PSI: III (160 psi min) Approximate length of sleeve: 6'
Depth of supply line: (36" min) Sleeve caulked and sealed properly:

The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Signature of company representative responsible for installation: Chris Willoughby date: 4-6-01

For Health Department Use Only - Not to be completed by Installer

Date Insp. Requested: 4/6/01 Date Insp. Approved: 4/6/01 SRK
Inspection Data: Pitless adapter and water supply line at least 36" below grade
Two piece cap installed and attached to casing securely
Elec. conduit extends at least 18" below grade/attached to cap properly
Safety rope installed inside of well casing
Correct well tag attached properly and casing 8" above finished grade
Water supply line sleeved adequately at house connection
Adequate grout observed below pitless adapter



9/17/99
Well site
started by
licensed
surveyor

SIGNED
PER & CERT

GIC3

GIB2

PRESERVATION
PARCEL 'B'

GIC3

LOT 18
46,255 Sq.Ft.*

LOT 17
43,693 Sq.Ft.*

LOT 15
58,332 Sq.Ft.*

LOT 16
40,559 Sq.Ft.*

LOT 27
49,802 Sq.Ft.*

LOT 14
47,095 Sq.Ft.*

LOT 13
50,000 Sq.Ft.*

LOT 12
45,707 Sq.Ft.*

LOT 7
59,555 Sq.Ft.*

LOT 6
54,456 Sq.Ft.*

LOT 5
55,554 Sq.Ft.*

11,813 Sq.Ft.*

11,142 Sq.Ft.*

10,100 Sq.Ft.*

10,115 Sq.Ft.*

10,000 Sq.Ft.*

10,420 Sq.Ft.*

10,031 Sq.Ft.*

10,998 Sq.Ft.*

10,503 Sq.Ft.*

11,376 Sq.Ft.*

10,697 Sq.Ft.*

14,161 Sq.Ft.*

19
Sq.Ft.*

SOIL PR
orange
DTP
DTP

361
361W

363AA
363A

363B
363

354

367

366

369

368

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708

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374B

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361W

363AA
363A

363B
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