

REMOVER: REMOVE COPY AND RETURN TO YOUR RECORDS. RETURN COUNTY COPY TO COUNTY ENVIRONMENTAL AGENCY. SUBMIT COPY TO OWNER. RETURN ALL OTHER PARTS TO DEPARTMENT OF ENVIRONMENT, 2500 BROENING HIGHWAY, BALTIMORE, MARYLAND 21224.

C1 3414 SEQUENCE NO. (MDE USE ONLY) **STATE OF MARYLAND WELL COMPLETION REPORT** THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

FILL IN THIS FORM COMPLETELY PLEASE TYPE

COUNTY NUMBER **(13) A36055**

ST/CO USE ONLY DATE Received MM DD YY DATE WELL COMPLETED MM DD YY Depth of Well 22 600 26 (TO NEAREST FOOT) 5/21/04 o.k. yield done Test Note BB

PERMIT NO. FROM "PERMIT TO DRILL WELL" 40-94-3885

OWNER McDaniel John first name TOWN Highland

STREET OR ROAD Highland Road SECTION Highland Estates LOT 1

WELL LOG 12980 Koandah Gardens Lot 1

Not required for driven wells

DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing
	FROM	TO	
Top soil	0	2	
Brown shale	2	10	
Sand	10	25	
sand stone	25	45	
Gray mica	45	95	
Brown mica	95	96	
Gray mica	96	600	

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 40 NO. OF POUNDS 4000

GALLONS OF WATER 240

DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 30 ft.

CASING RECORD

cases 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)

(ST) 6 40

OTHER CASING (if used)

diameter inch	depth (feet) from	to

SCREEN RECORD

screen type or open hole (insert appropriate code below)

(ST) STEEL **(BR)** BRASS **(HO)** OPEN HOLE **(PL)** PLASTIC **(OT)** OTHER

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. M WD 040

DRILLERS SIGNATURE Henry J. Easterday

LIC. NO. 25 D 038

SITE SUPERVISOR (sign of driller or journeyman)

C2 DEPTH (nearest ft.)

(HO) 38 600

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	

SLOT SIZE 1 _____ 2 _____ 3 _____

DIAMETER OF SCREEN (NEAREST INCH) 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

C3 **PUMPING TEST**

HOURS PUMPED (nearest hour) 3

PUMPING RATE (gal. per min.) 3

METHOD USED TO MEASURE PUMPING RATE Bucket

WATER LEVEL (distance from land surface)

BEFORE PUMPING 50 ft.

WHEN PUMPING 600 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 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 } 2 (nearest foot)

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)

see plot

B 1 0763

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

HO - 94 - 3885 fill in this form completely

W519679 please type BB

Date Received (APA)

OWNER INFORMATION 9618

8 MM DD YY 13

Hickory Ridge Farm

15 Last Name Owner First Name 34

13032 Highland Rd - 12980 Highland Rd

36 Street or RFD is Lot I

Highland, Md 20777

57 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL

Howard CC#

8 COUNTY 21

Hickory Ridge Farms - Highland Estates

23 SUBDIVISION 42

SECTION 44 46 LOT 48 50

Highland

52 NEAREST TOWN 71

MILES FROM TOWN (enter 0 if in town) 73 76 77 78

DRILLER INFORMATION

George F. Easterday MW D 040

Driller's Name 76 License No. 81

L. Franklin Easterday, Inc.

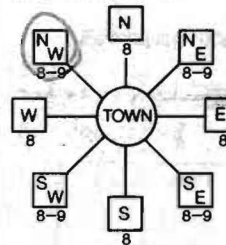
Firm Name

9265 Brown Church Rd., MT. Airy, Md. 21771

Address

Signature Date 11/25/03

B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



13032 Highland Rd

11 NEAR WHAT ROAD 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



34 500 37 DISTANCE FROM ROAD Ft

ENTER FT OR MI 38 39

TAX MAP: 34 BLK: 22 PARCEL 401

WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 5

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 500 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION
I INDUSTRIAL, COMMERCIAL, DEWATERING
P PUBLIC WATER SUPPLY WELL
T TEST, OBSERVATION, MONITORING
G GEO-THERMAL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard (13) A36055 COUNTY NAME COUNTY NO.

STATE SIGNATURE INSERT S 41

DATE ISSUED 2/9/2004 Brian Baper 2/9/2005

43 MM DD YY 48 CO SIGNATURE EXP. DATE

NORTH GRID 492 000 EAST GRID 811 000

APPROXIMATE DEPTH OF WELL 24 300 28 FEET

APPROXIMATE DIAMETER OF WELL 6 NEAREST INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN

AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary)

CABLE REVERSE-ROTARY Drive-POINT

other

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

- N THIS WELL WILL NOT REPLACE AN EXISTING WELL
Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
D 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. HO-94-3885

SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

Yield Test Required If Well to Be Used For Future Residence

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

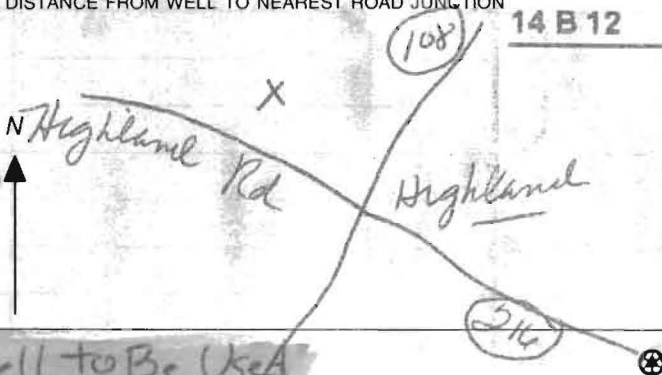
- 1. wells
2.
3.

WRITE THE BOX NUMBER FROM THE MAP HERE

800 + 11

4902

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



JAMES SAUBORN PROPERTY
LOT 1 - HIGHLAND ESTATES
HIGHLAND RD.

A 36055

SUBDIVISION:

LOT NUMBER:

DRY WELL OR DRY WELL AND TRENCH

	Septic Tank	_____ sq. ft./bedroom
		<u>Minimum Total square Feet</u>
3 bedroom	1000 gallon	_____
4 bedroom	1250 gallon	_____
5 bedroom	1500 gallon	_____

Inlet _____ feet below original grade.
 Bottom maximum depth _____ feet below original grade.
 Effective area begins at _____ feet below original grade.

NOTE: If trench is used to make up absorbent area, run the trench on level ground and leave a 5 foot earth buffer between dry well and trench. No trench is to exceed 100 feet in length. Trench inlet to be same as dry well, with _____ feet of stone below distribution pipe.

TRENCHES

_____ sq. ft./bedroom

Trench to be _____ wide.
 Inlet _____ feet below original grade.
 Bottom maximum depth _____ feet below original grade.
 Effective area begins at _____ feet below original grade.
 _____ feet of stone below distribution pipe.

- NOTE:
- (1) No trench to exceed 100 feet in length.
 - (2) If more than one trench used, a distribution box is required.
 - (3) Trenches to be installed on level ground.
 - (4) Call for inspection of trench before gravel is installed.
 - (5) Provide 6"-8" diameter cleanout and cap to grade or above on septic tank and drywell.
 - (6) If a Garbage disposal is used, increase septic tank capacity by 50% and increase absorbant sidewall area by 22%.

LOCATION: START FIRST TRENCH 130' FROM THE LEFT LOT LINE
AND 120' FROM THE REAR LOT LINE AS SEEN WHEN FACING THE
PROPERTY FROM HIGHLAND ROAD. RUN TRENCH(S) ALONG CONTOUR
TOWARD LEFT REAR CORNER OF LOT. - ALL PARTS OF SEPTIC SYSTEM
AND TRENCH MUST BE AT LEAST 100' FROM WELL.

12/2/85 CWaller

C1 3414

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 13 A36055

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

DATE WELL COMPLETED MM DD YY 4/9/04

Depth of Well 22 600 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" 5/21/04 D.K. Yield Test Not Done 40-94-3885

OWNER McDaniel John STREET OR ROAD Highland Road TOWN Highland SUBDIVISION Highland Estates SECTION LOT 1

WELL LOG 12980 Koandah Gardens Lot 1 Not required for driven wells

GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box) YES 44 NO 44

C 3 PUMPING TEST

Table with columns: DESCRIPTION (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Rows include Top Soil, Brown Shale, Sand, Sand Stone, Gray Mica, Brown Mica, Gray Mica.

TYPE OF GROUTING MATERIAL (Circle one) CEMENT CM BENTONITE CLAY BC NO. OF BAGS 40 NO. OF POUNDS 1000 GALLONS OF WATER 240 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 30 ft.

HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min.) 3 METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface)

CASING RECORD casing types insert appropriate code below ST STEEL CO CONCRETE PL PLASTIC OT OTHER

BEFORE PUMPING 50 ft. WHEN PUMPING 600 ft. TYPE OF PUMP USED (for test) A air P piston T turbine C centrifugal R rotary O other J jet S submersible

MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch) 6 Total depth of main casing (nearest foot) 40

PUMP INSTALLED DRILLER INSTALLED PUMP YES NO (CIRCLE) (YES OR NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

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

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

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

PUMP HORSE POWER 37 41 PUMP COLUMN LENGTH (nearest ft.) 43 47

NUMBER OF UNSUCCESSFUL WELLS: 0 WELL HYDROFRACTURED YES Y NO N

C 2 DEPTH (nearest ft.) 1 2 Ho 38 600

CASING HEIGHT (circle appropriate box and enter casing height) + above - below LAND SURFACE 2 (nearest foot)

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

SLOT SIZE 1 2 3 DIAMETER OF SCREEN (NEAREST INCH) 56 60

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)

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

DRILLERS LIC. NO. 1 M WD 040 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. 1 JS D 038

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q 70 72 74 75 76

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

TELESCOPE CASING LOG INDICATOR OTHER DATA

B 1 **0763** SEQUENCE NO. (MDE USE ONLY) **STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL** STATE PERMIT NUMBER **HO - 94 - 3885**
 1 2 3 6 70 *fill in this form completely* 79
W519677 please type **BB**

Date Received (APA) _____
OWNER INFORMATION 9618
 8 MM DD YY 13
Hickory Ridge Farm
 15 Last Name Owner First Name 34
13032 Highland Rd - 12980 Highland Rd
 36 Street or RFD **is Lot #**
Highland, Md 20777
 57 Town 70 State 72 Zip 76

B 3 **LOCATION OF WELL**
 8 COUNTY **Howard** 21
Hickory Ridge Farm - Highland Estates
 23 SUBDIVISION 42
 SECTION 44 46 LOT 48 50
Highland
 52 NEAREST TOWN 71
 MILES FROM TOWN (enter 0 if in town) 1 M | I |
 73 76 77 78

DRILLER INFORMATION
George F. Easterday MW D **040**
 Driller's Name 76 License No. 81
L. Franklin Easterday, Inc.
 Firm Name
9265 Brown Church Rd., MT. Airy, Md. 21771
 Address
George F. Easterday 11/25/03
 Signature Date

B 4 **13032 Highland Rd**
 11 NEAR WHAT ROAD 30
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
 NORTH WEST EAST SOUTH
 34 500 37
 DISTANCE FROM ROAD Ft. ENTER FT OR MI 38 39
 TAX MAP: **34** BLK: **22** PARCEL **401**

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

USE FOR WATER (CIRCLE APPROPRIATE BOX)
 D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
 F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
 I INDUSTRIAL, COMMERCIAL, DEWATERING
 P PUBLIC WATER SUPPLY WELL
 T TEST, OBSERVATION, MONITORING
 G GEO-THERMAL

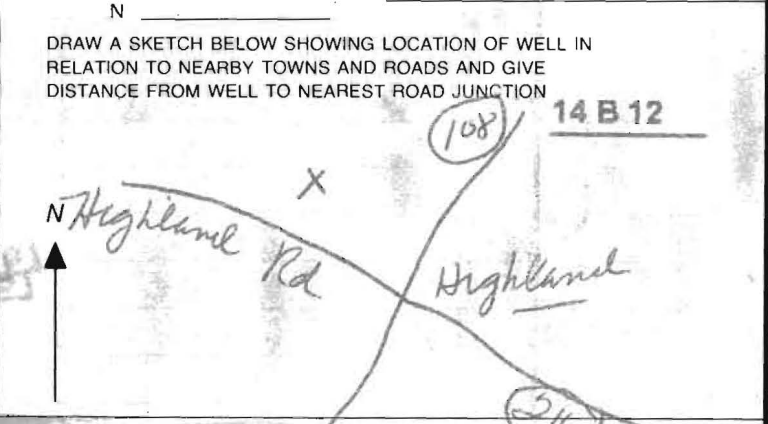
NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
Howard (13) **A36055**
 COUNTY NAME COUNTY NO.
 STATE SIGNATURE _____ INSERT S → 41
 DATE ISSUED **2/9/2004** **Brian Baper** 2/9/2005
 43 MM DD YY 48 CO SIGNATURE EXP. DATE
 NORTH GRID **492** 0 0 0 EAST GRID **811** 0 0 0
 50 55 57 63

APPROXIMATE DEPTH OF WELL 300 FEET
 24 28
 APPROXIMATE DIAMETER OF WELL 6 INCH
 NEAREST INCH

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X
4/9/04 8 AM grant
12 PM Contr. Gone
 SOURCES OF DRILLING WATER
 1. wells
 2.
 3.
 WRITE THE BOX NUMBER FROM THE MAP HERE
 E 800 11
 N 4902
 X
 000
 000

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 DEEPEINED WELLS (CIRCLE APPROPRIATE BOX)
 N THIS WELL WILL NOT REPLACE AN EXISTING WELL
 Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
 39 S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
 D THIS WELL WILL DEEPEIN AN EXISTING WELL
 PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE) 41 _____ 52



Not to be filled in by driller (MDE OR COUNTY USE ONLY)
 APPROP. PERMIT NUMBER _____ G _____
 PERMIT No. **HO - 94 - 3885**
 70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS **Yield Test Required If Well to Be Used**
 NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED
For Future Residence

JAMES SAUBORN PROPERTY
LOT 1 - HIGHLAND ESTATES
HIGHLAND RD.

A 36055

SUBDIVISION:

LOT NUMBER:

DRY WELL OR DRY WELL AND TRENCH

		_____ sq. ft./bedroom
	<u>Septic Tank</u>	<u>Minimum Total square Feet</u>
3 bedroom	1000 gallon	_____
4 bedroom	1250 gallon	_____
5 bedroom	1500 gallon	_____

Inlet _____ feet below original grade.
 Bottom maximum depth _____ feet below original grade.
 Effective area begins at _____ feet below original grade.

NOTE: If trench is used to make up absorbent area, run the trench on level ground and leave a 5 foot earth buffer between dry well and trench. No trench is to exceed 100 feet in length. Trench inlet to be same as dry well, with _____ feet of stone below distribution pipe.

TRENCHES

_____ sq. ft./bedroom

Trench to be _____ wide.
 Inlet _____ feet below original grade.
 Bottom maximum depth _____ feet below original grade.
 Effective area begins at _____ feet below original grade.
 _____ feet of stone below distribution pipe.

- NOTE:
- (1) No trench to exceed 100 feet in length.
 - (2) If more than one trench used, a distribution box is required.
 - (3) Trenches to be installed on level ground.
 - (4) Call for inspection of trench before gravel is installed.
 - (5) Provide 6"-8" diameter cleanout and cap to grade or above on septic tank and drywell.
 - (6) If a Garbage disposal is used, increase septic tank capacity by 50% and increase absorbant sidewall area by 22%.

LOCATION: START FIRST TRENCH 130' FROM THE LEFT LOT LINE
AND 120' FROM THE REAR LOT LINE AS SEEN WHEN FACING THE
PROPERTY FROM HIGHLAND ROAD. RUN TRENCH(S) ALONG CONTOUR
TOWARD LEFT REAR CORNER OF LOT. - ALL PARTS OF SEPTIC SYSTEM
AND TRENCH MUST BE AT LEAST 100' FROM WELL.

12/2/85 CW Allan

HIGHLAND ROAD

Copy of Plat signed 11/27/85

EXISTING PAVING

BA

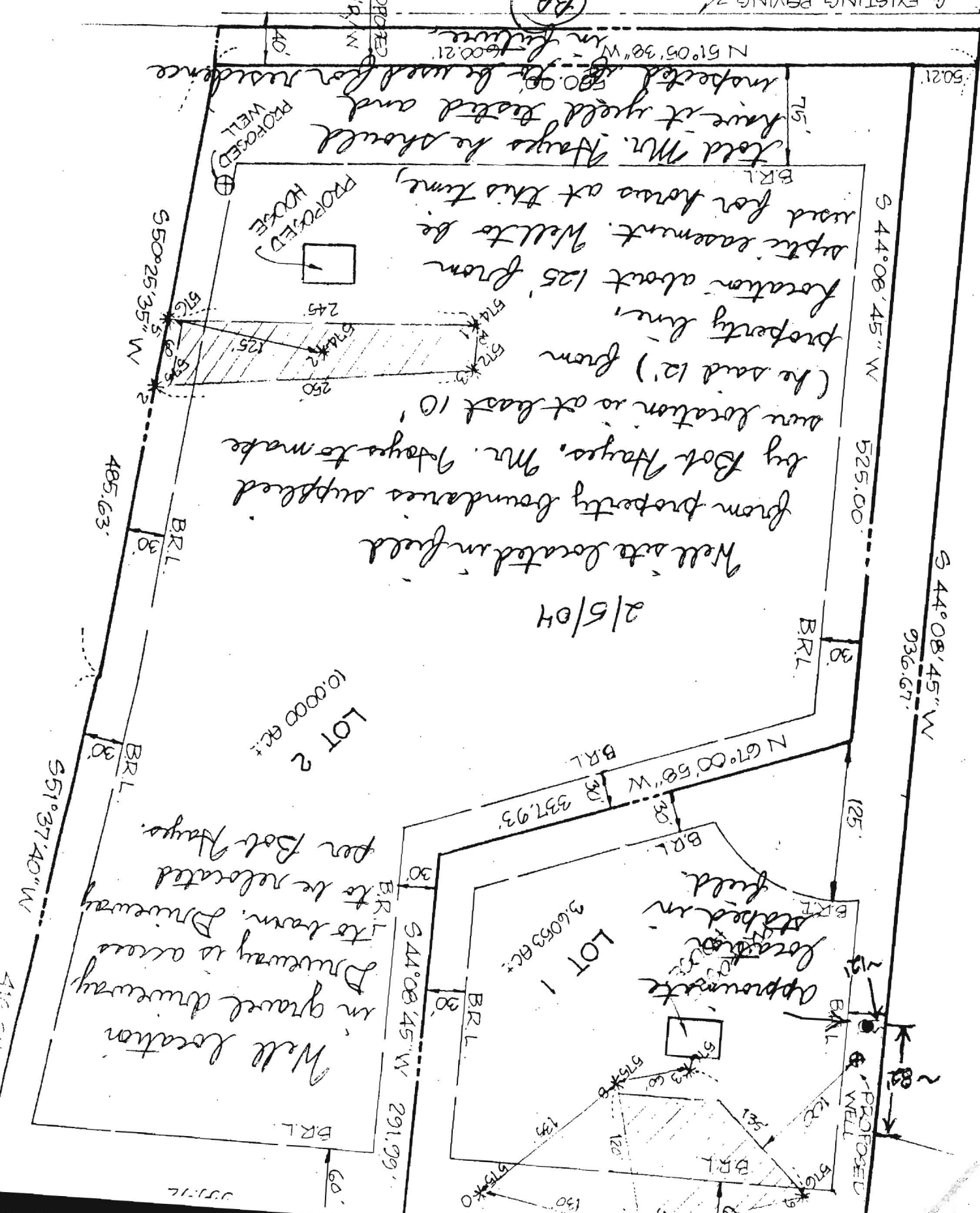
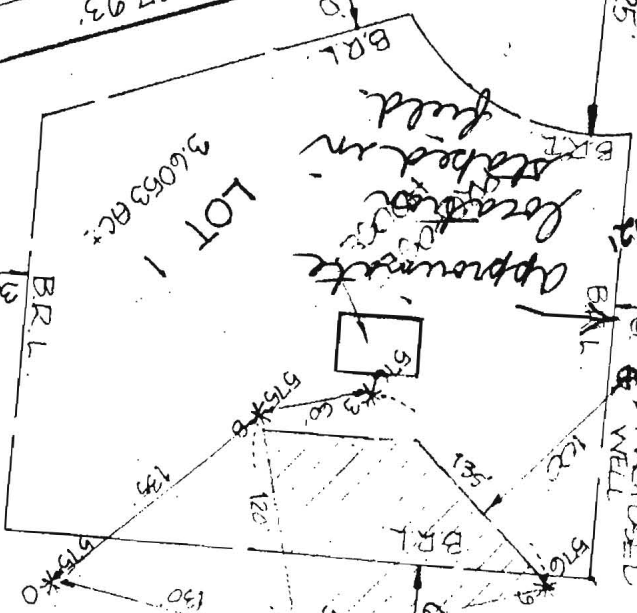
Told Mr. Hayes he should have it yield tested and reported 580.99 to be used for residence

Well site located in field by Bob Hayes, Mr. Hayes to make from property boundaries supplied (he said 12') from property line location about 125' from apt. easement. Will to be used for house at this time

2/5/04

LOT 2
10,000 AC.

Well location in gravel driveway to barn. Driveway is across to be relocated per Bob Hayes.



416.67

416.67

485.63

40

11/27/85