

8/8/85
10:10:30 AM

8-8-85
approved
S. Abel

PERMIT

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH

HOWARD COUNTY

BUREAU OF ENVIRONMENTAL HEALTH

992-2330

INDEXED

ELLICOTT CITY

DISTRICT 5th

DATE 7/22/85

W. J. Engel

IS PERMITTED TO INSTALL X ALTER

ADDRESS 2 Porter Court, Ashton, Maryland 20861

PHONE 774-0509 or 774-4001

SUBDIVISION (E. F. Cox property)

ROAD 13977 Route 108

LOT 1

PROPERTY OWNER William Engel

JAMES FULLERTON

ADDRESS 2 Porter Court, Ashton, Maryland 20861

IF GARBAGE GRINDER IS USED INCREASE SEPTIC TANK CAPACITY BY 50% AND ABSORPTION AREA BY 22%.

GARBAGE GRINDER? YES X NO

SEPTIC TANK CAPACITY 2000 GALLONS

NUMBER OF BEDROOMS 4

TRENCHES - 193 sq. ft. per bedroom. Requires 2 trenches - each 50 feet long.

Trench to be 2 ft. wide. Inlet 3 feet below original grade. Bottom maximum depth 11 feet below original grade. Effective area begins at 3 feet below original grade. 8 feet of stone below distribution pipe. Start the trench 30 feet from the 413.12 ft. long lot line and 95 feet from the intersection of the 514 ft. long line and the 413.12 ft. long line. Continue to dig the trench on level ground running towards 4 Wheel Drive.

BLDG. PERMIT SIGNED

AND RETURNED

7/9/85
Serial # 60631
Check

PLANS APPROVED BY Frank A. Skinner

DATE 6/10/85

COVER NO WORK UNTIL INSPECTED AND APPROVED.

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

NOTE: IF TRENCH IS USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCH.

NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER. NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH.

NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 40 PVC OR ABS.

PERMIT VOID AFTER THREE YEARS.

NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL. STAND PIPES MUST BE 6 INCHES IN DIAMETER. CAST IRON, CONCRETE OR TERRA COTTA, OR PVC OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET MANHOLE TO GRADE REQUIRED.

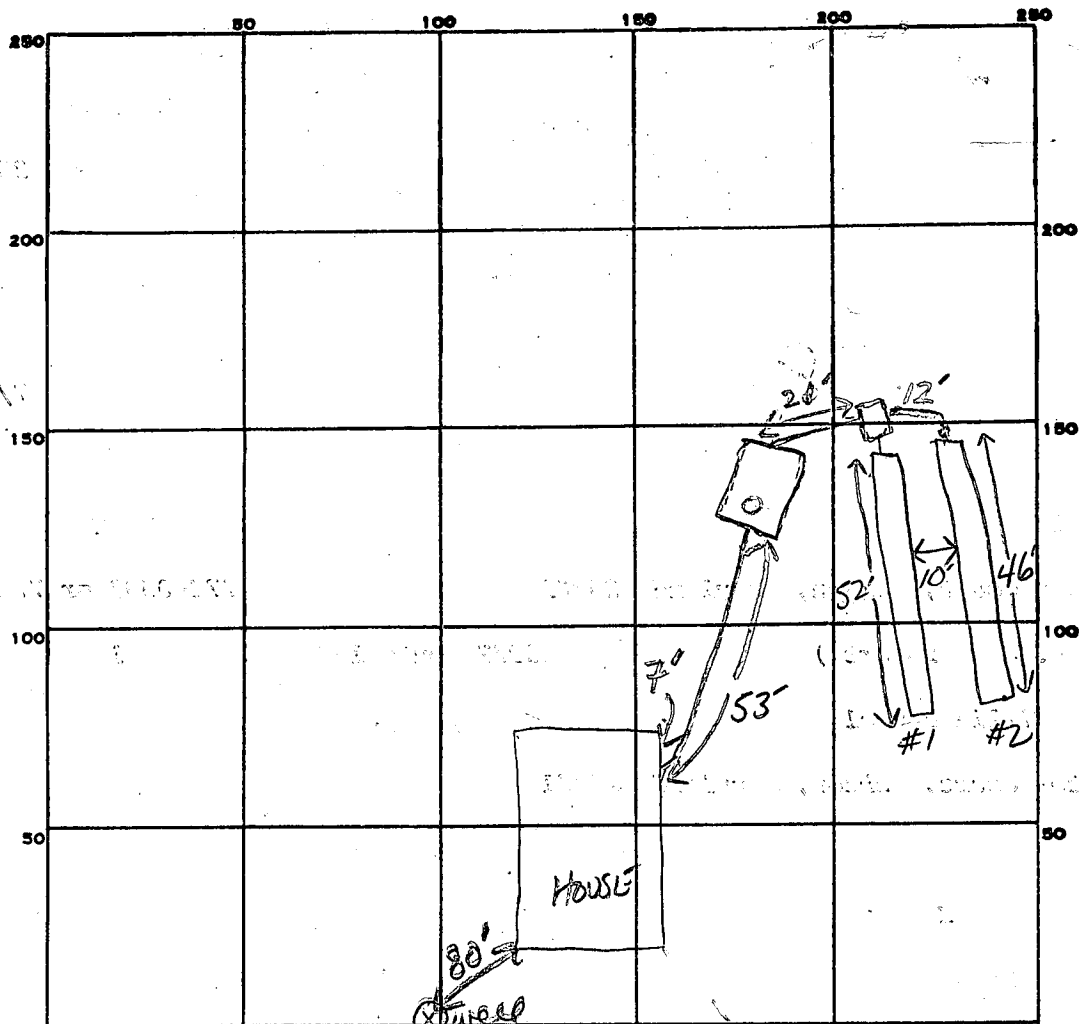
***INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT**

*CALL 992-2330 FOR INSPECTION OF SEPTIC SYSTEMS.

EH - 2-1082

A 28627

3934
772
97
81792
232



INDICATE NORTH. - NAME ADJOINING ROADWAY AS BASE LINE.

4-Wheel DRIVE

PERMIT CARD ☒

SEPTIC TANK, LEVEL _____

CLEANOUTS _____

DISTRIBUTION BOX, LEVEL _____

TILE FIELD, DEPTH 11' 11' FT. TRENCH WIDTH 2 FT.

INLET 3'

GRAVEL DEPTH _____ IN. TOTAL LENGTH 52 46 TOTAL 98' FT.

NUMBER OF TRENCHES _____ TOTAL BOTTOM AREA _____

SEEPAGE PITS, INSIDE DIAMETER _____ FT. DEPTH BELOW INLET _____ FT.

ABSORBENT AREA _____ SQ. FT.

REMARKS 7-22-85 OK TO ADD STONE TO BOTH TRENCHES - NEED ALL PIPEWORK +
ST w/c.o., HOUSE CONNECTION. STABLE

DATE SYSTEM APPROVED

8-8-85

INSPECTOR

Sid. Abel

APPLICATION

A 28627

SEWAGE DISPOSAL TESTING

P _____

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

HOWARD COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICES
P. O. BOX 476, ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 465-5000, EXT. 356

DISTRICT 5th

DATE 8/1/78

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I, HEREBY, APPLY FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER E.F. & Geraldine Cox Wm. Engel

ADDRESS 13951 Clarksville Pike, Highland, Md. PHONE 924-2541

PROPERTY LOCATION:

SUBDIVISION _____ LOT NO. 1

ROAD AND DESCRIPTION # 13977 Clarksville Pike, Highland, Md.

158 193
772

SIZE OF LOT 3.509 acres TYPE BLDG. 3 or 4

NUMBER OF BEDROOMS

IF NOT SINGLE RESIDENCE DESCRIBE _____

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE.

SIGNATURE OF APPLICANT Geraldine Cox for E.F. Cox

APPROVED BY G. Keller FOR Drywell/Trench DATE 22 Aug. 78
(KIND OF SYSTEM)

REJECTED BY _____ FOR _____ DATE _____
(KIND OF SYSTEM)

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING Hold for plat (G.W.) 25 Sept 78 B.P. # 65086

See A 16443 & A 19591

BLDG. PERMIT SIGNED
AND RETURNED 5-24-85

THIS IS NOT A PERMIT

1088
70
115

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
8/17/78	1S - HIGH	3'	1044	1045	1045	1048	3
	1D	13 1/2'	1039	1041	1041	1044	3
	2S	2 1/2'	1011	1016	1016	1023	7
	2D	12'	1016	1019	1019	1022	3
	3S	3 1/2'	1030	1032	1032	1034	2
	3D	15'	VISUAL	- hard packed		AT 13'	
	4S - LOW	3'	1101	1116	1116	1146	30 ←
	4D	15'	1102	1106	1106	1114	8

USE

good soil at 4'

Avg. TIME = 4.3
min + 20% = 5.0

120 ft²/BR

max depth

12' inlet at 3'

REMARKS Heavy underbrush - wooded

TYPE OF SOIL Silty loam - coarse - hard packed below 13'

TESTED BY (GLK) ALSO PRESENT: E. Cox

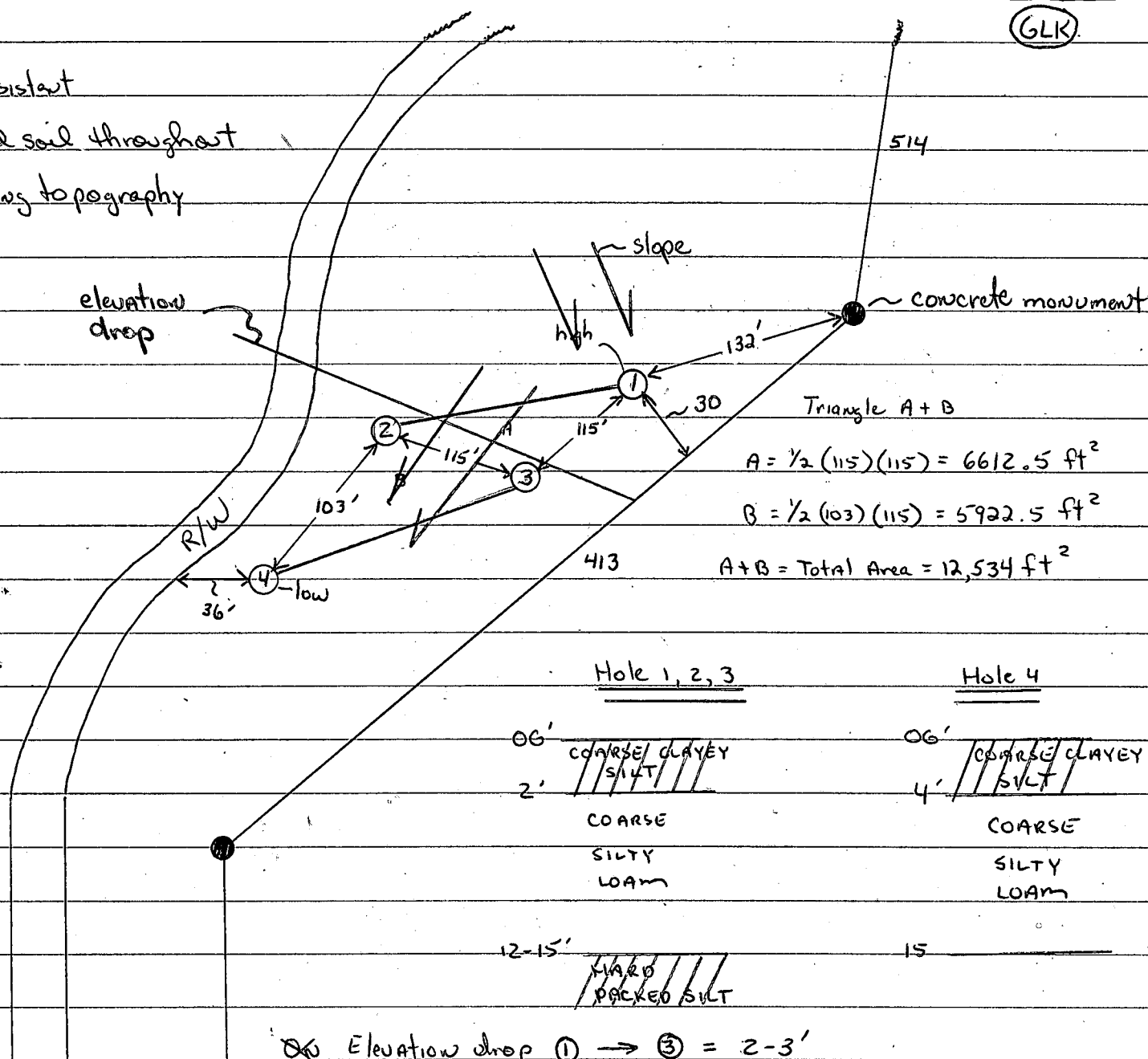
LOT 1 - Cox Prop.

17 Aug. 78

(GLK)

consistant
good soil throughout
sloping topography

elevation
drop



Elevation drop ① → ③ = 2-3'

③ → ④ = 3-4'

← RT 216

RT 108

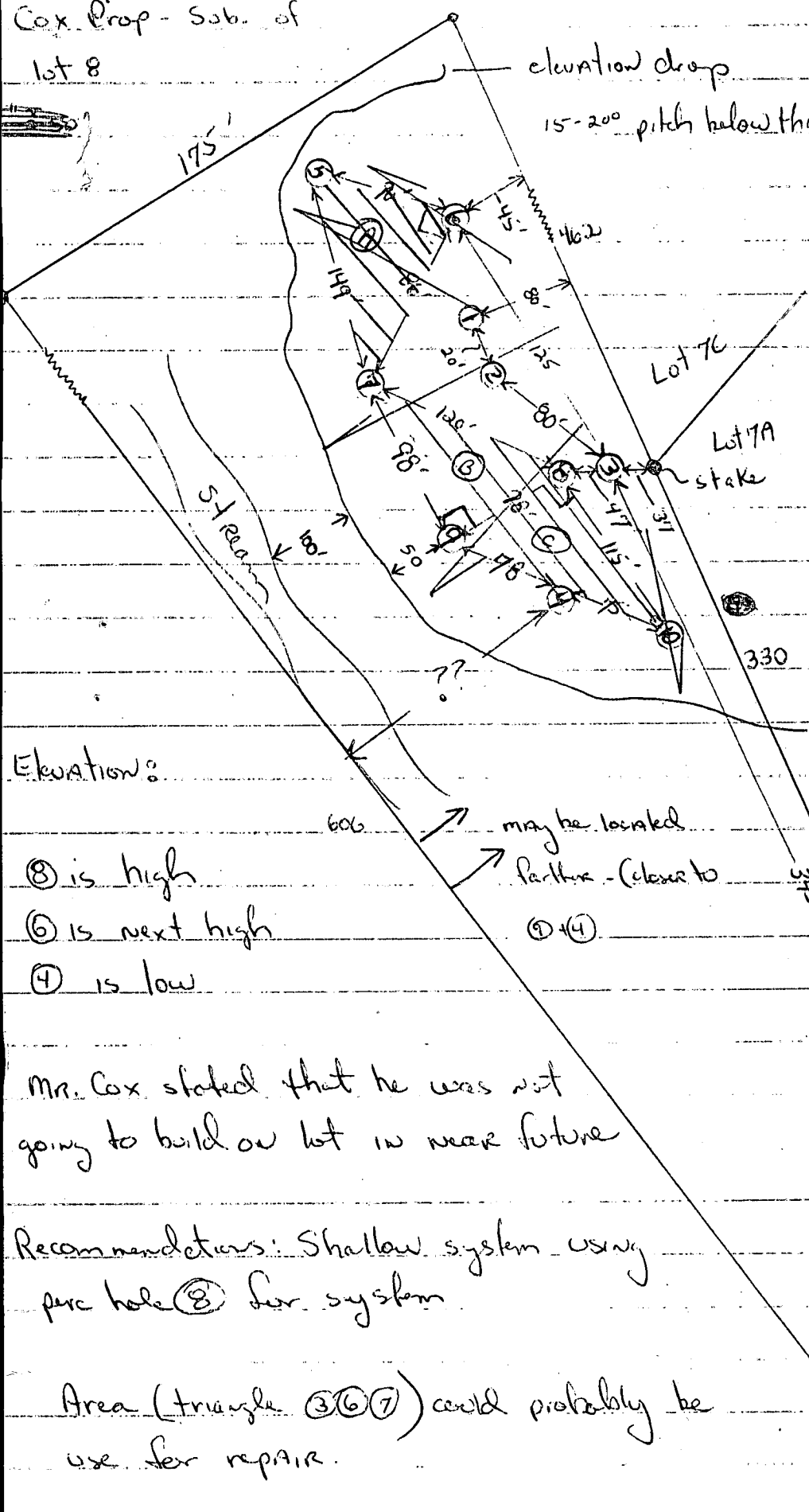
← N

Cox Prop - Sub. of
lot 8

18 Aug 78 ① → ④
29 Aug 78

elevation drop
15-20° pitch below this line

Area A = $\frac{1}{2}(90)(86) = 3870$
Area B = $\frac{1}{2}(98)(98) = 4802$
Area C = $\frac{1}{2}(98)(115) = 5635$
Total = $\pm 14,307 \text{ ft}^2$



Hole ① → ③
OG
CLAYEY
LOAM
4'
WEATHERED
SHALE -

Hole ④ + ⑥
OG
CLAYEY
LOAM
3'
SHALY
SAND

8'
HARD
BOTTOM

10-12' HARD BOTTOM

Hole ⑤ + ⑩
OG
CLAYEY
LOAM
2'
SANDY
LOAM
10'

Elevation:

- ⑧ is high
- ⑥ is next high
- ④ is low

may be located
further - (close to
⑧ + ④)

Mr. Cox stated that he was not
going to build on lot in near future

Recommendations: Shallow system using
perc hole ⑧ for system

Area (triangle ③⑥⑦) could probably be
use for repair.

C12261SEQUENCE NO. (OEP USE ONLY)

STATE OF MARYLANDWELL COMPLETION REPORTFILL IN THIS FORM COMPLETELYPLEASE PRINT OR TYPE

COUNTY NUMBER428627PERMIT NO. FROM "PERMIT TO DRILL WELL"40-81-0980

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

DATE ReceivedDATE WELL COMPLETED051745Depth of Well140(TO NEAREST FOOT)

OWNERENGELJOE

STREET OR RFDlast nameROUTE 108 - (4 WHEEL DRIVE)first nameTOWN

SUBDIVISIONCOX PROPERTYSECTIONLOT 1

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	
TOP Soil	0	2	
Clay	2	3	
Shaley	3	5	
Sand Stone	5	25	
Mica	25	30	
Sand Stone	30	45	✓
Mica	45	60	
Sand Stone	60	65	✓
Mica	65	140	

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box)YESYNO44

TYPE OF GROUTING MATERIALCEMENTCMBENTONITE CLAYBC

NO. OF BAGS10NO. OF POUNDS100

GALLONS OF WATER60

DEPTH OF GROUT SEAL (to nearest foot)from0ft. to27ft. (enter 0 if from surface)

CASING RECORD

casing types insert appropriate code below

STEELSTCONCRETECOPLASTICPLOTHEROHER

MAIN CASING TYPENominal diameter top (main) casing (nearest inch)Total depth of main casing (nearest foot)

ST627

OTHER CASING (if used)

diameter inchdepth (feet) from to

SCREEN RECORD

screen type or open hole insert appropriate code below

STEELSTBRASSBRONZEBRONZEPLOTHEROHER

C2

DEPTH (nearest ft.)

EACH SCREEN1HO27190

2

3

SLOT SIZE 123

DIAMETER OF SCREEN5660 (NEAREST INCH)

GRAVEL PACK

IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

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

T12(E.R.O.S.)WQ747576

TELESCOPE CASINGLOG INDICATOROTHER DATA

C3

PUMPING TEST

HOURS PUMPED (nearest hour)3

PUMPING RATE (gal. per min. to nearest gal.)8

METHOD USED TO MEASURE PUMPING RATEBucket

WATER LEVEL (distance from land surface)BEFORE PUMPING25

WHEN PUMPING35

TYPE OF PUMP USED (for test)AairPpistonTturbineCcentrifugalRrotaryOother (describe below)JjetSsubmersible

PUMP INSTALLED

DRILLER WILL INSTALL PUMP YESNO

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE

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

CAPACITY: GALLONS PER MINUTE (to nearest gallon)3135

PUMP HORSE POWER3741

PUMP COLUMN LENGTH (nearest ft.)4347

CASING HEIGHT (circle appropriate box and enter casing height)abovebelowLAND SURFACE2(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)

35' well

200

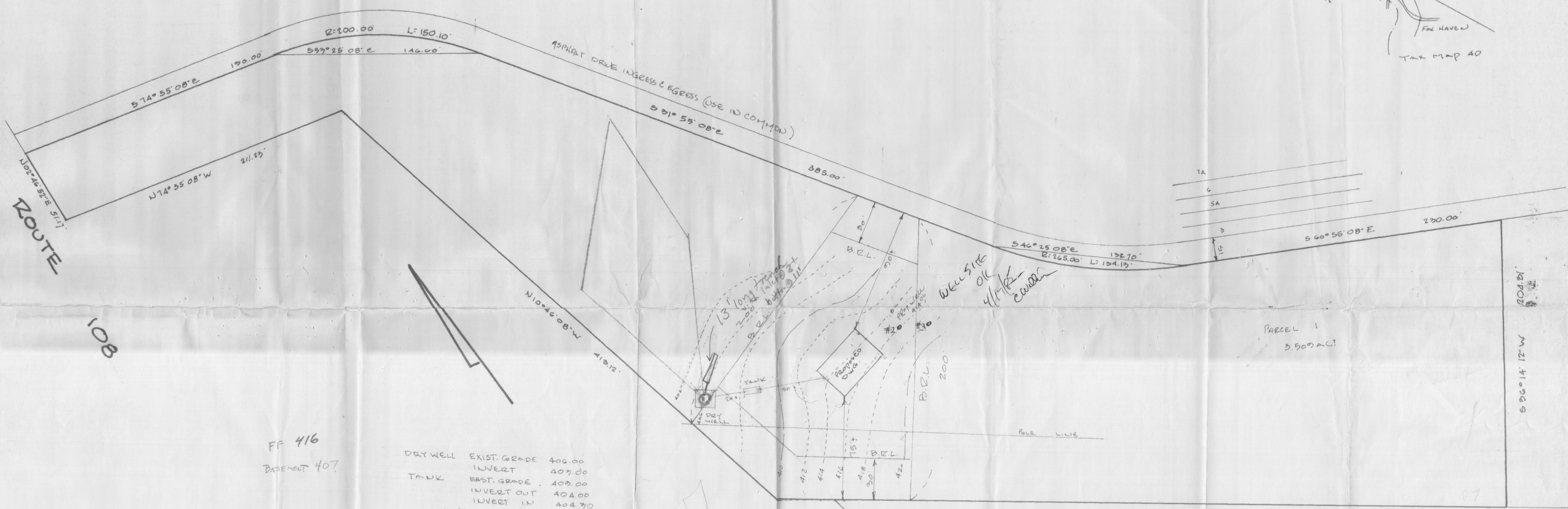
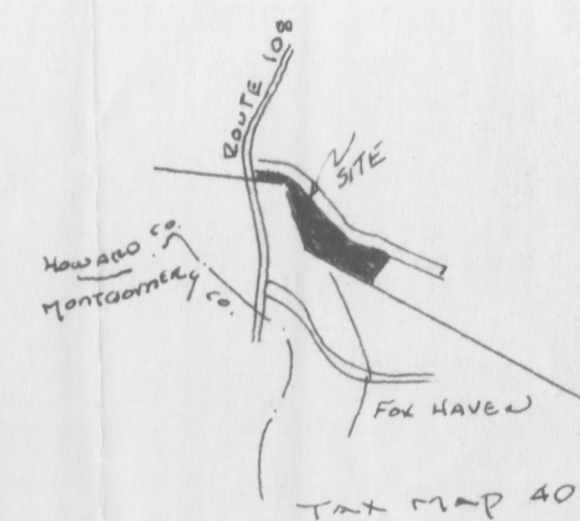
RT. 108

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 10.17.13 "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 IDENT. NO.41

DRILLERS SIGNATURE

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



FF 416
BASEMENT 407

DRY WELL	EXIST. GRADE	406.00
	INVERT	407.00
TANK	EXIST. GRADE	409.00
	INVERT OUT	404.00
	INVERT IN	404.30
	INVERT AT HOUSE	405.30
PROPOSED WELL ELEV.		411.00
	#2	416.00
	#3	418.00

Elevation ok
4/17/85 Cullin

65086

SITE PLAN
1
PLAT OF SURVEY FOR E.F. COX 1913
PARCEL 1 DEED L. 915 F. 398
9th ELECTION DISTRICT HOWARD COUNTY, MD
SCALE 1" = 40' APRIL 4, 1985